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				Action
			Cy No. Oliver	1011011
REF: ANY RECENT REFUGE 47, PARAGE	APH "P"		2 CS	
· 		TA BETERNEY	SEC BR	
1. HAS, FOR SOME TIME,	, BEEN ATTEMPTI	NG 10 DETERMIN	TOS	
TIP COURSE ACCURACY CONVENTION	AND DEFCICE DE	FINITION OF S	CCD T	
THE SOURCE, ACCURACY, CONVENTION,	AND PRECISE DE	FINITION OF SA	1 11 2	
CALIBRATION DATA (PITCH, ROLL, AND	YAWY AS LISTE	D ON EACH 4000	3	
CALIBRATION DATA (PITCH, ROLL, AND		,	103	
SERIES MISSION REPORT NUMBER 47 (R	REF.). IN DISC	USSIONS AT	3.4.5	-
	•		1/10	
		IT		
HAC CHOCECTED BY THEM THAT	COL	LD POSSIBLY	FAG FAXX-4	
WAS SUGGESTED BY THEM THAT		FD LASSIBLI	SPAD	
SHED MORE LIGHT ON THE PROBLEM.			ROA-LO	
SALD MORE LIGHT ON THE TROBLEM.			DIA-AP	
2. IF THE FOLLOWING QUESTIONS	CAN BE ANSWERE	D, ONE AT A		
TIME, A GREAT MANY ORIENTATION PRO	DRIEMS CAN BE S	OLVED:	Advance copy	
alaby a datal man oathuration inc		- 	Sanitized	
A. DO THE THREE FIGURES GIVE	EN REPRESENT DI	FFERENCES		

B. IF THE ABOVE IS TRUE, WHICH UNIT IS HELD AS THE CONTROL UNIT AND WHICH UNIT IS THE ONE FOR WHICH THE OFF-SETS

BETWEEN THE ORIENTATION OF THE S/I UNIT AND THE PRIMARY

CAMERA UNIT AS MOUNTED IN THE VEHICLE?

ARE GIVEN?

25X1 USES THE FOLLOWING SIGN CONVENTIONS IN ITS PROGRAMS USING PITCH, ROLL, AND YAW. PLUS "Y" IS FLIGHT DIRECTION, PLUS "X" IS TOWARD "RIGHT WING" IN LINE-OF-FLIGHT, AND PLUS "Z" IS "UP". IF CONVENTIONS USED IN THE CALIBRATED DATA VARY FROM THESE, PLEASE SPELL OUT: POSITIVE PITCH (PLUS)

NGA review(s) completes ved For Release 2006/01/31 : CIA-RDP78 B03817A000200080010-4

Excluded from automatic downgrading and

THE "NOSE-UP" OR TILTS THE MAIN MIRROR TO THE FORWARD-LOOKING

POSITION. POSITIVE ROLL IS A ROTATION AROUND THE "Y" AXIS OF

THE VEHICLE WHICH PUTS THE VEHICLE IN A "LEFT-WING-UP"

ATTITUDE IN LINE-OF-FLIGHT (AIMS THE CAMERAS TO LEFT OF

GROUND TRACK IN FLIGHT). POSITIVE YAW IS A ROTATION AROUND

THE "Z" AXIS OF THE VEHICLE IN A COUNTER CLOCKWISE DIRECTION

AS VIEWING THE GROUND FROM ABOVE THE VEHICLE IN LINE-OF-FLIGHT.

(A NOSE-LEFT, TAIL-RIGHT ROTATION.) DO THE CALIBRATION FIGURES

PRESENTED IN PARAGRAPH "P" OF THE R-A7 FOLLOW THIS CONVENTION?

IS A ROTATION AROUND THE "X" AXIS OF THE VICLE WHICH PUTS

ASSUMES THAT IN THIS CALIBRATION, EACH
ROTATION IS CALIBRATED INDEPENDENTLY FROM THE OTHERS. THAT

IS, HOLDING ONE UNIT FIXED, THE OFFSET IN ROLL ONLY IS GIVEN:

THEN, PITCH, THEN YAW, PLANE FOR PLANE. IF IS IN

ERROR, PLEASE SPELL OUT THE CORRECTIONS TO THIS ASSUMPTION.

E. HOW ACCURATE IS THE CALIBRATION?

TOPSECRET

25X1

-END OF MESSAGE-

25X1